

Form PTO-1449 U.S. DEPARTMENT OF COMMERCE (Rev. 2-22) 74277 U.S. PTO				ATTY. DOCKET NO. LUD 250.4 L/CHT	SERIAL NO. 08/039,553 736,019		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use several sheets if necessary)				APPLICANT Andrew David John Goodearl et al.			
				FILING DATE March 24, 1993	GROUP 1818		
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	4 9 6 8 6 0 3	11/6/90	Slamon et al.	435	6		
	4 9 3 5 3 4 1	6/19/90	Barkmann et al.	435	6		
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
SG	WO89 0 6 6 9 2		PCT Application				
11	WO90 1 4 3 5 7		PCT Application				
11	WO91 1 5 2 3 0		PCT Application				
11	WO91 1 8 9 2 1		PCT Application				
11	WO92 1 2 1 7 4		PCT Application				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
SG	Brookes et al., "Purification and Preliminary Characterization of a Glial Growth Factor from the Bovine Pituitary", J. Biol. Chem. 255; 18, 8374-8377 (September 1980).						
SG	Brookes et al., "The neuron as a source of mitogen: its influence on the proliferation of glial and non-neuronal cells", Garrod and Feldman eds, pp. 309-327 (1980).						
SG	Lenke et al. "An Immunological Approach to the Purification and Characterization of Glial Growth Factor", Monoclonal Antibodies to Neural Antigens, McKay, Raff and Reichardt, eds. pp. 133-140 (1981).						
EXAMINER	DATE CONSIDERED						
Stephen Gucker				10/1/97			
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

FORM PTO-1449  
(REV. 1-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE  
74277 U.S. PTO

ATTY. DOCKET

LUD 250.4 EL/CHT

SERIAL NO.

08/036,555 736,019

LIST OF PRIOR ART CITED BY APPLICANT  
(Use several pages if necessary)

JUL 13 1997

07/17/97

APPLICANT Andrew David John Goodearl et al.

FILING DATE

March 24, 1993

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOC NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA						
AB						
AC						
AD						
AE						
AF						
AG						
AH						
AI						
AJ						
AK						

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
So	AL WO93 2 2 3 3 9		PCT Application				
So	AM WO93 2 2 4 2 4		PCT Application				
AN							
AO							
AP							

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

So	AR	Benveniste, E.N. et al., "Purification and characterization of a human T-lymphocyte-derived glial growth promoting factor", 82: 3930-3934,
		June 1985.
So	AS	Kimura, H. et al., "Nature, Structure, expression and function of a Schwannian derived growth factor", 348: 257-260, November 15, 1990.
So	AT AU	Pallis et al., Cell, AP-1, a Protein that stimulates acetylcholine receptor synthesis, is a member of the Neu Ligand family, 72: 801-815 (1993)
		Flanagan et al., Nature, Heregulin induces tyrosine phosphorylation of HER4/p180erbB4, 366: 473.

EXAMINER *Stephen Buckley* DATE CONSIDERED *10/1/97*



REVO		U.S. PATENT & TRADEMARK OFFICE		ATTY. DULAC, JR.	SERIAL NO.	
				IUD 250-4-(CPT)	08/029 527 736,019	
		INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT Andrew David John Goodearl et al.		
		MAIL DATE (0001 CANCELLED)		FILING DATE March 24, 1993	GROUP /818	
		U.S. PATENT DOCUMENTS				
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	
FILING DATE IF APPROPRIATE						
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	
TRANSLATION YES   NO						
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
26	Peles et al., "Isolation of the Neu/HER-2 Stimulatory Ligand: A 44 kD Glycoprotein That Induces Differentiation of Mammary Tumor Cells", Cell 69: 205 (April 1992).					
26	Lupu et al., "Direct Interaction of a Ligand for the erbB2 Oncogene Product with the EGF Receptor and p185erbB2", Science 249: 1552 (September 1990).					
26	Yarden et al., "Biochemical Analysis of the Ligand for the neu Oncogenic Receptor", Biochemistry 30: 3543 (1991).					
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\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



08/03/1955 736,019

~~INFORMATION DISCLOSURE STATEMENT~~

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Andrew David John Goodearl et al.

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GROUP 1818

**U.S. PATENT DOCUMENTS**

## **FOREIGN PATENT DOCUMENTS**

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

*Huang et al. "Purification and Characterization of the neu/erb B2 Ligand-Growth Factor from Bovine Kidney", J. Biol. Chem. 257: 11508 (June 1992).*

*S6* Lupu et al., "Characterization of a growth factor that binds exclusively to the erbB-2 receptor and induces cellular responses", P.N.A.S., U.S.A. 89: 2287 (March 1992).

*S6* Holmes et al., "Identification of Heregulin, a Specific Activator of p185erbB2", Science 256: 1205 (May 1992).

**EXAMINER**

<sup>HER</sup> Stephen Buckley

## PATE CONSIDERED

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**\*EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

**INFORMATION DISCLOSURE STATEMENT**  
**BY IMPRIMACANT**

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Andrew David John Goodearl et al.

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March 24, 1993

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1818

**U.S. PATENT DOCUMENTS**

## **FOREIGN PATENT DOCUMENTS**

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

S6		wen et al., "Neu Differentiation Factor: A Transmembrane Glycoprotein Containing an EGF Domain and an Immunoglobulin Homology Unit". Cell 69: 559 (May 1992).
S6		Yarden, "Growth Factor Receptor Tyrosine Kinases", Ann. Rev. Biochem. 57: 443-478 (1988).

**EXAMINER**

INER Stephen Buckley

**DATE CONSIDERED**

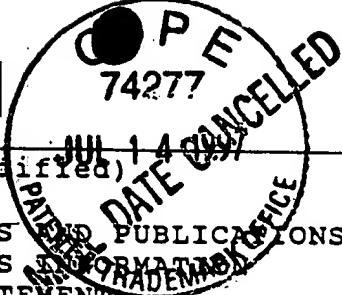
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**LIST OF PATENTS AND PUBLICATIONS  
FOR APPLICANT'S INFORMATION  
DISCLOSURE STATEMENT**

(Use several sheets if necessary)

ATTY. DOCKET NO. | SERIAL NO.  
LUD 5250.4-JEL/NDH | 08/306,555 736,019

**APPLICANTS**

Andrew Goodearl, et al.

FILING DATE  
March 24, 1994

GROUP  
1812 1818

REFERENCE DESIGNATION		U.S. PATENT DOCUMENTS						
EXAMINER	DOCUMENT	NAME	CLASS	CLASS	SUB- CLASS	FILING DATE	INITIAL	
SG	AA 5 3 6 7 0 6 0	11/22994 Vandlen et al.	530	399				
	AB							
	AC							
	AD							
	AE							
	AF							
	AG							
	AH							
	AI							
	AJ							
	AK							

## FOREIGN PATENT DOCUMENTS

	DOCUMENT	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	NUMBER					
AL						
AM						
AN						
AO						
AP						

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)


EXAMINER

*Stephen Becker*

DATE CONSIDERED

10/11/97

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